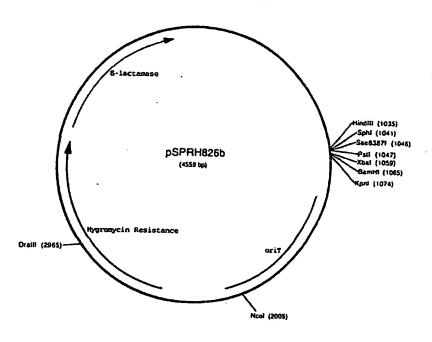


Fig. 1.

## pSPRH826b insertion plasmid



pSPRH840 integrating vector

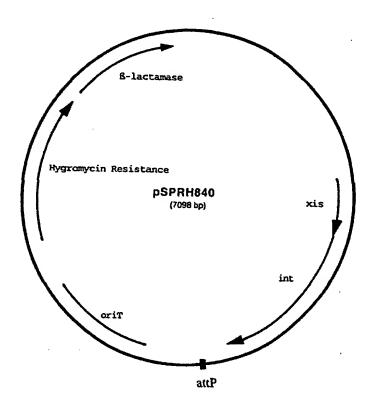
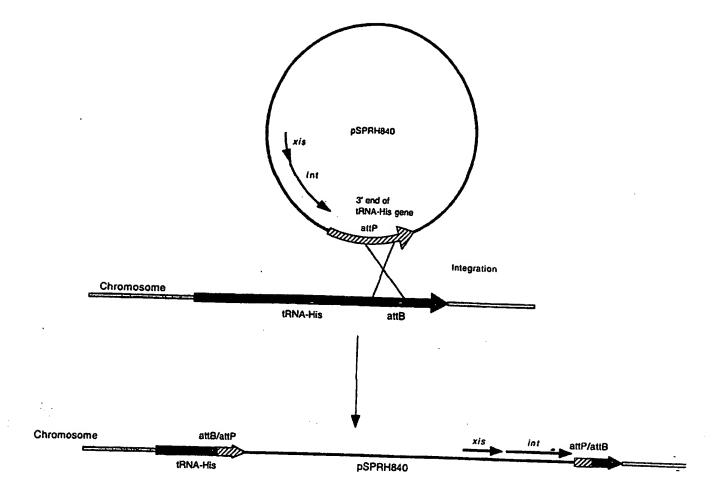


Fig. 3.



- (a) 1 TAGGGGAATCCACTCCGGAGACGCCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC
- 95 CGGTACGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTACTCCACAGCAGATCAGGCCCCTCCGAA
- 167 GAGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAA
- (b) 1 TATTAGTCCGCACGCCCCGCCCGCCCGCGGAGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGGTT
- 162 CTGAGGGTTCGCGGTCAGGCGGTCGGCGCTCGGCGCCCCGTCGGCGGAGTGGCCTCGGCGTCGGGGGA  $22^4 \cdot A$  T P E A S P S E A G D A P T A E A D P S
- (c) 1 TGGCGGGGGTGTGGCTATTATTAGTCCGCCCCGCCCCGGCCCCGGGGCGGAGCGGAGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCG
- 92 GGTTGTGGTCCCGGTTGTCGTGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTACTCCACAGCAG
- 162 ATCAGGCCCCCTCCGAAGAGGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAACCCCCGGCTCCTTGCTCGCGTC
- (d) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC

attP/attB right juncture

- 95 CGGTACGGGTTCAATTCCCATCAGTCACCCGTACACGAAGGCCCCTCCACTCGGGGGGCCTTCGGCGTT
- 167 CCTGAGGGTTCGCGGTCAGGCGGTCGGCGCTCGGCGCACTCGGCCCCCGTCGGCGGAGTGGCCTCGGCGTCCGGGGAACTCGGCGTCCGGGGAACTCGGCGTCCGGGGAACTCGGCGGAGTGGCCTCGGCGTCCGGGGAACTCGGCGAACTCGGCGGAACTCGGCGAACTCGGCGGAACTCGGCGAACTCGGCGGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGGCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCGAACTCAACTCGAACTCGAACTCAACTAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACTCAACT

- (a) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCAATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCTGACCAGGGCCC
- 95 CGGTACGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTACTCCACAGCAGATCAGGCCCCTCCGAA
- 167 GAGGGGCCTGATGCGTCATAGGGGACAGGTAGGGGAACTCAA
- (b) 1 TTTCTCCGCACCCGCCCGGGGCGTTCGACCGGGTGCGGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGG1
- 90 TGTCGTGGGTTCAATTCCCATCAGTCACCCCAGGTAAGACCCAGGTCAGGGCCGGTTCTCACCGGCCCTGA
- (c) 1 TTTCTCCGCACCCGCCCGGGGCGTTCGACCGGGTGCGGCGCATGGTGGCTGTAGCTCAGTTGGCAGAGCACCGGGTTGTGGTCCCGGT
- 90 TGTCGTGGGTTCAATTCCCATCAGTCACCCGGCAAGTGGATCTCCACAGAGAGATCAGCCCCTCCGAA
- 162 GAGGGGGCCTGATGCGTCATAGGGGACAGGTAGGGAACTCAACCCCCGGCTCCTTGCTCGCGTCGGGTCATGCCGTCGCGTACCCCTCCGCGT
- 257 ACCTGGCCCTCTCCCGTTCCTCGATCTCGGCCGGCGAGCTGATCGCGCAGGTGCGCCTCC
- (d) 1 TAGGGGAATCCACTCCGGAGACGCCCGGAGCATCCGGAGCATGACGGAGCAACCAGCAGGTCAGGTGGCCTGTTGACCCCCTGACCAGGGCCCC
  - attP/attB right juncture
- 96 GGTACGGGTTCAATTCCCATCAGTCACCCAGGTAAGACCCAGGTCAGGGCCGGTTCTCACCGGCCCTGACG
- 168 CATTITCAGGGGCATGGTGGGGGGGGTACCGGGGGTGTCTCACCGCGAGCCAGCATCTCGATCAGGCGATCGAGCCGGCGCTGCCGGG 22⁴• R P H P T E G R A L M E I L 'R D L R R